







Hawaii Reapportionment Commission

6 September 2011

Extraction Update

Reapportionment Project Office: Contact Information

http://hawaii.gov/elections/reapportionment

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Who was counted in Hawaii by the US Census?



This is the official form to It is quick and easy, and y

Use a blue or black pen.

Start here

The Census must count every person living in the United States on April 1, 2010.

Before you answer Question 1, count the people living in this house, apartment, or mobile home using our guidelines.

 Count all people, including babies, who live and sleep here most of the time.

The Census Bureau also conducts counts in institutions and other places, so:

- Do not count anyone living away either at college or in the Armed Forces.
- Do not count anyone in a nursing home, jail, prison, detention facility, etc., on April 1, 2010.
- Leave these people off your form, even if they will return to live here after they leave college, the nursing home, the military, jail, etc. Otherwise, they may be counted twice.

The Census must also include people without a permanent place to stay, so:

- If someone who has no permanent place to stay is staying here on April 1, 2010, count that person. Otherwise, he or she may be missed in the census.
- How many people were living or staying in this house, apartment, or mobile home on April 1, 2010?

Number of people =

Where You Are Counted Is Important

The Concept Of Usual Residence

The Residence Rule

People Away From Their Usual Residence On Census Day

Visitors On Census Day

People Who Live In More Than One Place

People Without A Usual Residence

Students

Movers On Census Day

People Who Are Born Or Die On Census Day

Nonrelatives Of The Householder

U.S. Military Personnel

Merchant Marine Personnel On U.S. Flag Maritime/Merchant Vessels

Foreign Citizens In The U.S.

U.S. Citizens And Their Dependents Living Outside The U.S.

People In Correctional Facilities For Adults

People In Group Homes And Residential Treatment Centers For Adults

People In Health Care Facilities

People In Juvenile Facilities

People In Residential School-Related Facilities

People In Shelters

People In Transitory Locations (e.g., RV parks, campgrounds, marinas)

People In Religious-Related Residential Facilities

Three types of uncertainty:

- LOCATION:

Where is the non-permanent resident's usual residence

- census block = more certain
- ZIP code = less certain

- TIMELINESS:

Was that their usual residence on April 1, 2010?

- Date of data extract
- Lag in reporting

- NON-PERMANENT STATUS:

- Is the person a non-permanent resident?
 - home, taxes, voting, community, ...

- August 17, 2001 Commission Meeting - DMDC Data



Permanent and Non-Permanent Military Residents

The non-permanent resident extraction model used in 1991 and 2001 relied on receiving location specific (address or ZIP Code) residence information for the specific non-permanent residents to be extracted.

In 2011, the data received from the Defense Manpower Data Center (DMDC) does not provide residence information for military sponsors nor does it provide specific breakdowns of permanent and non-permanent residents by location.

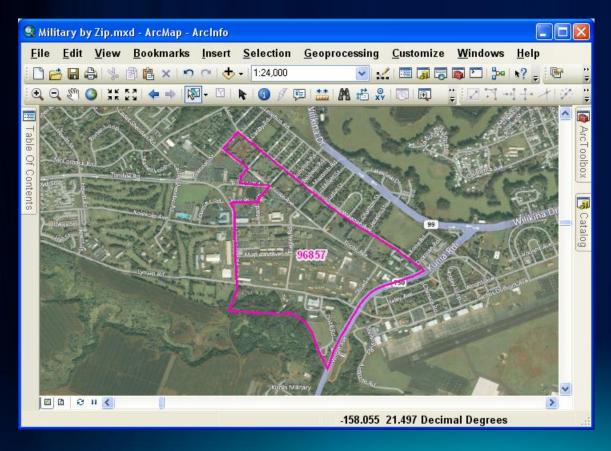
This lack of specific data from DMDC does not allow the model used previously to be used this time.

Examples from Schofield Barracks, Marine Corps Base Hawaii and Joint Base Pearl Harbor will help illustrate.

Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96857 shows 17,004 sponsors and 968 dependents, for a total of 18,012 military residents.

DMDC does not indicate what portion of the 18,012 are permanent residents and what portion are non-permanent residents.



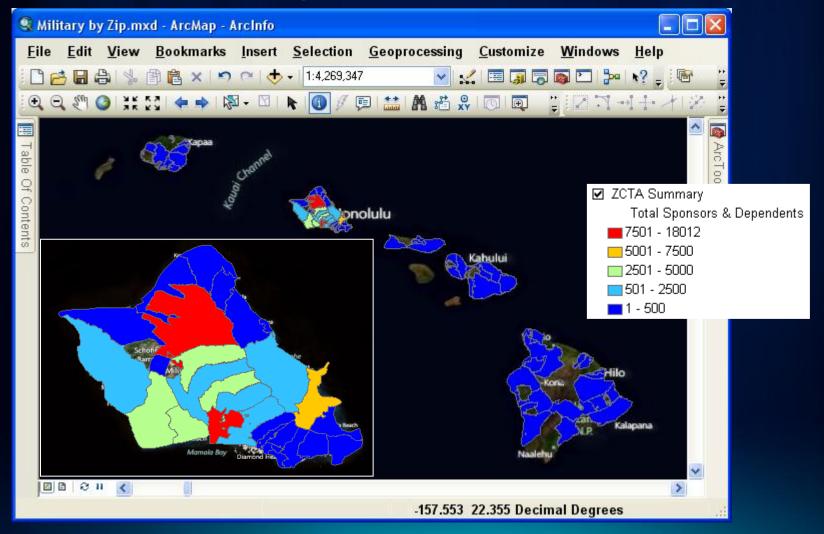
U.S. Census data for ZCTA 96857 shows a total population of 2,522.

DMDC only reports sponsor duty ZIP Codes and clearly 17,004 sponsors do not live in 96857.

We do not know where these sponsors live nor where they would have been counted by the U.S. Census.

Permanent and Non-Permanent Military Residents

Data from DMDC shows sponsors and dependents spread statewide with the majority on Oahu, but does not distinguish between permanent and non-permanent residents.



Three types of uncertainty – DMDC Military Data:

- LOCATION:



Where is the non-permanent resident's usual residence

- Only duty station given for sponsors

- TIMELINESS : 🗸



Was that their usual residence on April 1, 2010?

- March 31, 2010

- NON-PERMANENT STATUS:



- Is the person a non-permanent resident?
 - Not individually identified

Non-Permanent Student Residents Disaggregation

If extractions to the U.S. Census PL 94-171 census block counts are to be made for redistricting, data on the non-permanent populations to be extracted must also be known or estimated at the census block level.

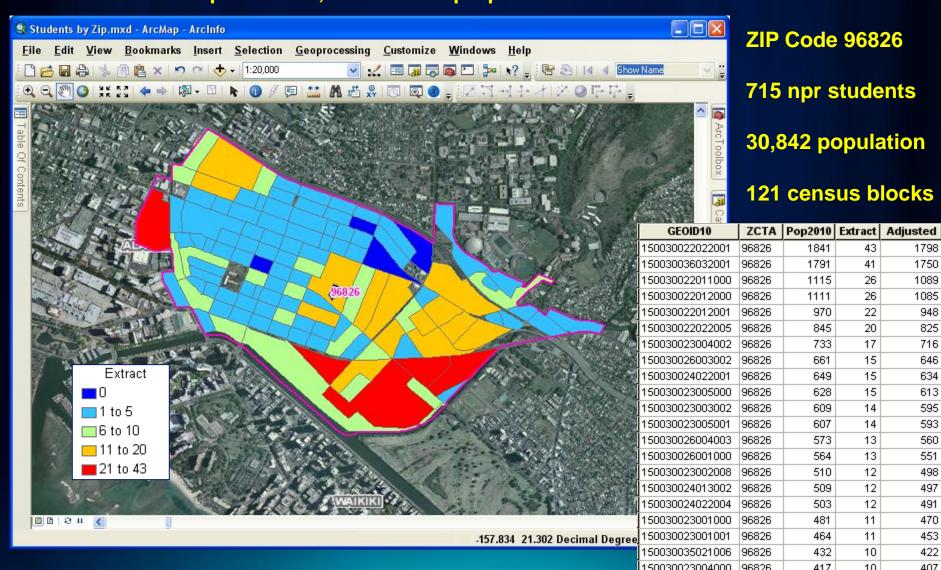
For privacy reasons, data is often only provided at a ZIP Code level.

A disaggregation model is applied to assign ZIP Code-level non-permanent populations to individual census blocks in proportion to the total population of each census block.

An example showing University of Hawaii non-resident student counts for ZIP Code 96826 being assigned to individual census blocks will help illustrate how this model works.

Non-Permanent Student Residents Disaggregation

With 30,842 residents and 715 non-permanent residents, approximately 1 in every 43 residents is non-permanent, we use that proportion to extract from each census block.



Three types of uncertainty – Students:

- LOCATION:

Where is the non-permanent resident's usual residence

census block = more certain

Full Address 🟏

- ZIP code = less certain

ZIP Code Only

- TIMELINESS : 🎺



Was that their usual residence on April 1, 2010?

- Spring Semester 2010

- NON-PERMANENT STATUS: 💙



- Is the person a non-permanent resident?
 - Identified by institution as non-resident

How are military sponsors and dependents in Hawaii counted by the US Census?



How are military sponsors and dependents in Hawaii counted by the US Census?

- GROUP QUARTERS:

- Living in barracks
- Shorter-term
- Counts by census block

- MILITARY ON-BASE:

- Living in on-base housing
- Longer-term
- Families work and go to school here
- Counts by census block

- MILITARY OFF-BASE:

No counts provided by U.S. Census

Three types of uncertainty – Military Group Quarters and On-Base:

- LOCATION: 🗸



Where is the non-permanent resident's usual residence

- Group quarters census block

- On-base census block

- TIMELINESS : 🗸



Was that their usual residence on April 1, 2010?

- Group quarters counted on Census Day

- On-base **counted on Census Day**

- NON-PERMANENT STATUS: ?

- Is the person a non-permanent resident?

unknown, barracks are transient housing Group quarters

- On-base unknown, on-base less transient than group quarters

Three Extractions:

- EXTRACTION A:

Census block location known, fairly certain non-permanent status

- Students with full addresses
- Military in Group Quarters

- EXTRACTION B:

Census block location known, less certain non-permanent status

- Military living On-base

- EXTRACTION C:

- Census block location not known, fairly certain non-permanent status
 - Students with only ZIP Codes

- EXTRACTION A:	extraction	adjusted total
- Honolulu	-15,660	937,547
- Hawaii	-793	184,286
- Maui	-4	154,920
- Kauai	-1	67,090
- EXTRACTION B (includes Extraction A):		
- Honolulu	-72,609	880,598
- Hawaii	-796	184,283
- Maui	-4	154,920
- Kauai	-143	66,948
- EXTRACTION C (includes Extraction B):		
- Honolulu	-78,524	874,683
- Hawaii	-921	184,158
- Maui	-178	154,746
- Kauai	-198	66,893









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